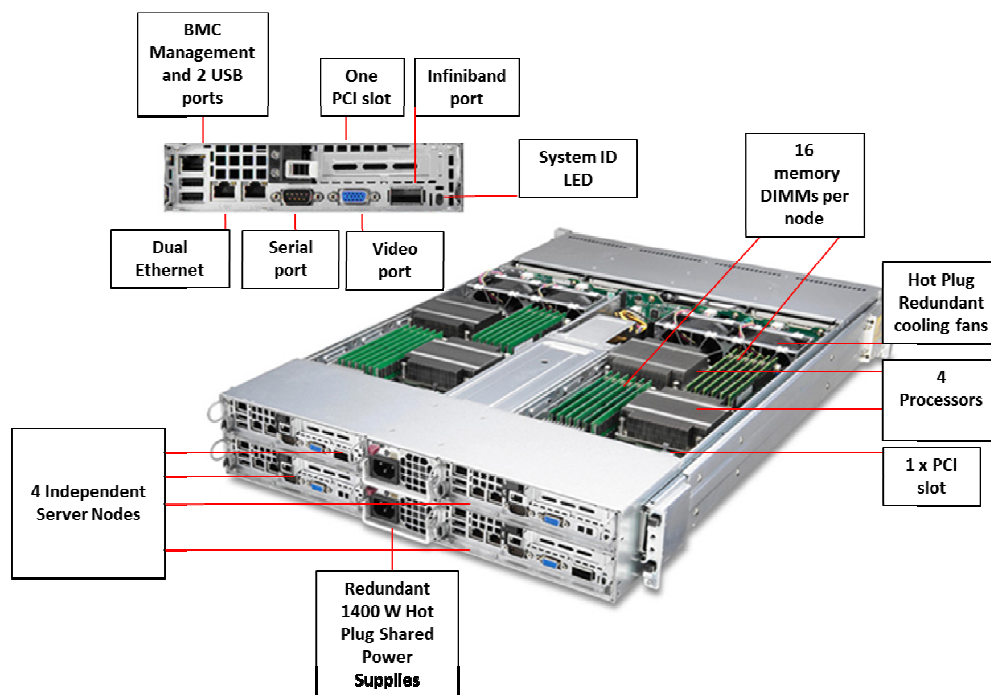
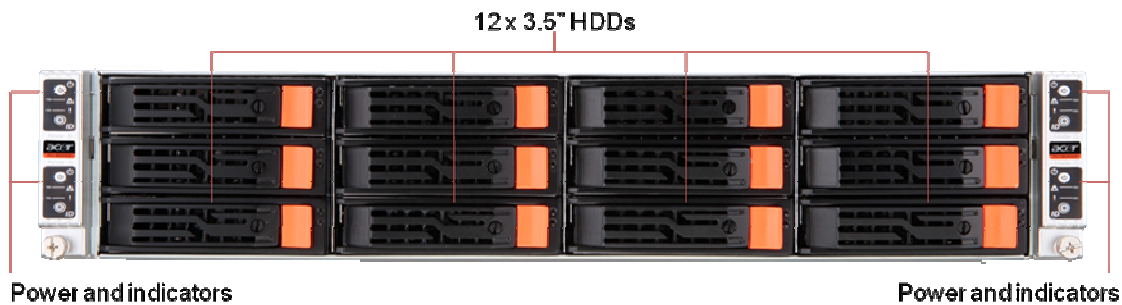


Acer AW2000h w/ AW175hx F1 Long Specifications

Product Overview

The Acer Gemini AW2000h w/ AW175hx F1 maximizes computing power and thermal control with up to four hot-pluggable nodes in a space-saving 2U form factor. Offering first-class performance, innovative technology, high configurability, and comprehensive management features, Acer AW2000h w/ AW175hx F1 servers deliver superb scale-out possibilities to mid markets and high-performance computing (HPC) environments.

Product Front View

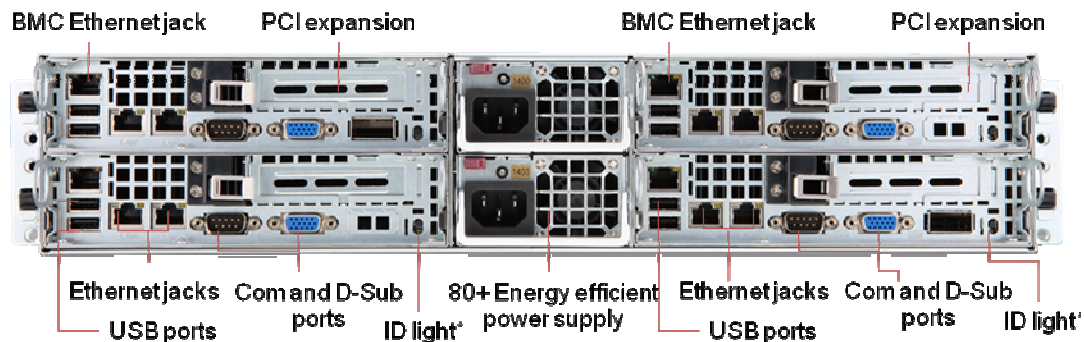


Product Inside View (per node):

- 16 x ECC DDR3 1066/1333 MHz registered or unbuffered ECC DIMMs (64 total per enclosure)
- 2 x AMD Opteron™ 6100 series processors supporting up to 12-cores per processor (8 total per enclosure)
- 2 x 1400 W Gold level (90% efficiency) hot-pluggable power supply
- 4 x dual-rotor system cooling fans
- Power button, System ID button, LED indicators (Power, HDD activity, LAN 1-2 status, system ID/status/fault) (4 total per enclosure)
- Support for up to three 3.5" hot-pluggable SATA hard disk drives (12 total per enclosure)
- 1 x PCI Express® slot (PCI Express x16)

Acer AW2000h w/ AW175hx F1 Long Specifications

Product Rear View



1. 2 x USB 2.0 connectors
2. Management IPMI LAN connector
3. COM (Serial) connector
4. Video connector
5. 2 x Gigabit LAN connectors
6. ID LED
7. InfiniBand port (AW175hq F1)

What's New

- AMD Opteron™ 6100 series processors supporting up to 12 cores per processor
- 2 x 1400 W 80PLUS® gold-level efficient power supply units (1+1 redundant, hot-pluggable)
- InfiniBand with QDR connection (AW175hq models)

Product Specifications (per node)

Nodes¹

- Up to four hot-pluggable AW175h F1 nodes with standard low profile PCIe® 2.0
- Up to four hot-pluggable AW175hq F1 nodes with standard PCIe® 2.0 and QDR InfiniBand

Processors and Chipset

- Processor: Up to two AMD Opteron™ 6100 series supporting up to 12 cores processors
- Chipset: AMD SR5670/SP5100

Memory²

- Memory capacity:
 - Registered DIMM: 2, 4, 8, 16 GB³
 - Unbuffered DIMM: 2, 4 GB
- Up to 256 GB using registered DIMMs when fully populated with 2 DIMMs per channel, 16 slots
- Up to 64 GB using unbuffered DIMMs when fully populated with 2 DIMMs per channel, 16 slots

Network Controllers

- Integrated Intel® 82576EB Gigabit Ethernet Controller with dual ports

¹ Any of the node options can be used together

² Mixed use of registered memory and unbuffered ECC memory not supported

³ 16 GB memory modules available by special request only

Acer AW2000h w/ AW175hx F1 Long Specifications

Storage

- Hard disk form factor: 3.5"
- Type: SATA with hot plug capability
- HDD Capacity (enterprise level):
 - 3.5" SATA HDD capacity: 250GB, 500GB, 1TB, 2 TB
- 3.5" Maximum capacity:
 - Up to 6 TB SATA (2 TB 3.5" x 3 HDDs)

Storage Controllers

- Integrated AMD SP5100 Chipset Serial ATA host controller with RAID 0, 1, 10 support
- Optional PCIe® 4-port SAS HBA

Expansion slots

- One PCI-E 2.0 x16 slot supporting standard low profile PCIe® cards
- PCIe® 2.0 x 16 connector + ConnectX® QDR infiniband (With AW175hq F1)

Management

- Acer Smart Server Manager
- System ID LED buttons, System Health LED
- Acer Smart Console for server management and KVM over IP remote management

Deployment/serviceability

- Acer Smart Setup
- BIOS Update Tool
- IPMI Firmware Update Tool

Operating systems

- Windows Server® 2008
- Windows Server® 2008 R2
- Windows Server® 2003
- Red Hat® Enterprise Linux 5.4
- SUSE® Linux Enterprise Server 11
- VMware ESXi™ 4
- VMware ESX™ 4

Input/output interface

Front

- One Power/off button
- LED indicators: power, HDD activity, LAN port 1 through 2, and ID

Rear

- Two USB 2.0 ports
- Two RJ-45 ports (dual Gigabit NIC) with activity and link indicators
- RJ-45 port (dedicated for management NIC) with activity and link indicators
- Serial (DB-9) port
- SVGA (DB-15) port
- ID LED
- QDR Infiniband port (AW175hq F1 only)

Acer AW2000h w/ AW175hx F1 Long Specifications

Optical drive

- External USB only

Chassis/form factor

- 2U rack optimized
- 2U chassis supporting two different node configurations:
 - AW170h F1 and AW170hq F1

Power Supply

- 2 Power Supplies Standard
- 1400 W 220 V 80 PLUS® Gold level efficient power supply (1+1 redundant and hot-pluggable)

Regulatory Compliance standards

EMC

- FCC (Class A)
- CE (Class A)

Safety

- UL/cUL
- CB

Acer AW2000h w/ AW175hx F1 Long Specifications

Technical Specifications

Dimensions (with bezel)	438 (W) x 724 (D) x 88 (H) mm (17.25 x 28.5 x 3.47 inches)	
Form factor	2U rack optimized	
Weight (approximate)	Maximum	35 kg (77 lbs.)
	(All component slots and sockets fully populated)	
	Minimum	30.9 kg (68 lbs.)
	(One HDD, power supply, and processor installed)	
BTU rating	Maximum	3754.3 BTU/hr (at 100 - 140 VAC) 4778.2 BTU/hr (at 180 - 240 VAC)
System inlet temperature	Operating	10° - 35°C (50° - 95°F) at sea level with an altitude derating of 1°C per 305 m (1.8°F per 1000 ft.) above sea level to a maximum of 3050 m (10,000 ft.)
	Non-operating	-40° - 70°C (-40° - 158°F)
Relative humidity (non-condensing)	Operating	8 - 90 % relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing
	Non-operating	5 - 95 % relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing
Dielectric voltage withstand	Input to output	3000 VAC/minute
	Input to ground	500 VAC/minute
Maximum wet bulb temperature	Reference	41.3°C (106.3°F)
Emissions classification (EMC)	FCC rating	Class A
	Normative standards	CISPR 22, EN55022, EN55024, FCC CFR 47, Pt 15, ICES-003, EN 61000-3-2, EN 61000-3-3, EN 60950-1, IEC 60950-1
Power supply	<u>Input voltage</u>	
	Rated input voltage	100 - 240 VAC
	<u>Input</u>	
	Rated input line	85 - 264 VAC
	Frequency range	50 - 60 Hz
	Rated input power	AC 100 - 140 V, 11 - 7.5 A, 50 - 60 Hz, 1100 W AC 100 - 240 V, 8 - 5 A, 50 - 60 Hz, 1400 W
	Rated input current	14 A at 100 VAC 6 A at 240 VAC
	Steady state power	1400 W at 240 VAC

Acer AW2000h w/ AW175hx F1 Long Specifications

Standard Features

Processors

AMD Opteron™ 6100 series processor (12 cores)

6174 (12 cores, 12 MB L3 cache, 2.2 G, 6.4GT/s, 80 W)

6168 (12 cores, 12 MB L3 cache, 1.9 G, 6.4GT/s, 80 W)

AMD Opteron™ 6100 series processor (8 cores)

6128 (8 cores, 12 MB L3 cache, 2.0 G, 6.4GT/s, 80 W)

Chipset

AMD SR5670/SP5100

Memory⁴

Type	DDR3 1066/1333 MHz Registered memory DDR3 1066/1333 MHz Unbuffered ECC memory
DIMM sockets	16
Capacity	Registered DIMM: 2 / 4 / 8 / 16 GB ⁵ Unbuffered ECC DIMM: 2 / 4 GB
Maximum capacity	Registered DIMM: 256 GB Unbuffered DIMM: 64 GB

Memory protection ECC, Online Sparing mode

Network controller Integrated dual Intel® 82576EB Gigabit Ethernet Controller (dual ports) per node

Expansion slots

The primary I/O bus for the main board is PCIe® Gen2. The following table lists the characteristics of the PCI-E bus segments.

Expansion Slot #	# of slots	Type	Bus Width ¹	Vol.	Con. Width	Form factor
PCIe®	1	PCIe® Gen 2	x16	3.3V	x16	Low Profile

NOTE:

1. "Bus Width" refers to the number of physical electrical lanes running to a PCIe® connector.
2. Default bus assignment (in decimal). Inserting cards with PCI™ bridges may alter the actual bus assignment number.
3. Slots are enumerated differently based on the operating system. Microsoft® operating systems enumerate Device ID by bus starting from the lowest bus to the highest.

InfiniBand

- AW175h F1 – Infiniband is supported in a PCI slot
- AW175hq F1 -- QDR InfiniBand speed with IB controller: Mellanox ConnectX®, MT25408A0-FCCR-QIS, 40 Gb/s (4X) with 1x QSFP connector.

⁴ Mixed use of registered memory and unbuffered ECC memory not supported.

⁵ 16 GB memory modules available by special request only.

Acer AW2000h w/ AW175hx F1 Long Specifications

Storage controller	AMD SP5100 SATA controller	
Integrated Serial ATA controller	Simultaneous drive transfer channels	3 channels
	Transfer rate synchronous (maximum theoretical)	3 Gb/s per channel
	Data transfer method	Non-RAID mode RAID mode (Adaptec® RAID driver)
	Drive support	Serial ATA
	Data transfer modes	Legacy mode Combined mode
	Protocol	Serial ATA
	Feature	NCQ (Native Command Queuing) AHCI (Advanced Host Controller Interface)
	RAID levels supported	0, 1, 10
	RAID features	• Supports multiple logical volumes • Supports setup through ROM based array configuration utility installation scripting NOTE: This controller requires the software RAID driver to support hot-plug functions.
	RAID OS support	Windows Server® 2003 Windows Server® 2008 Windows Server® 2008 R2 Red Hat® Enterprise Linux 5.4 SUSE® Linux Enterprise Server 11 VMWare ESXi™ 4 VMWare ESX™ 4
Embedded dual-port Gigabit server adapter (Intel 82576EB) dual port total	Network interface	10Base-T 100Base-TX 1000Base-TX
	Compatibility	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX
	Data transfer method	Four lane (x4), 100 MHz PCI Express reference clock
	Network transfer rate	10Base-T (half-duplex) 10 Mb/s
		10Base-T (full-duplex) 20 Mb/s
		100Base-TX (half-duplex) 100 Mb/s
		100Base-TX (full-duplex) 200 Mb/s
		1000Base-TX (half- and full-duplex) 2000 Mb/s

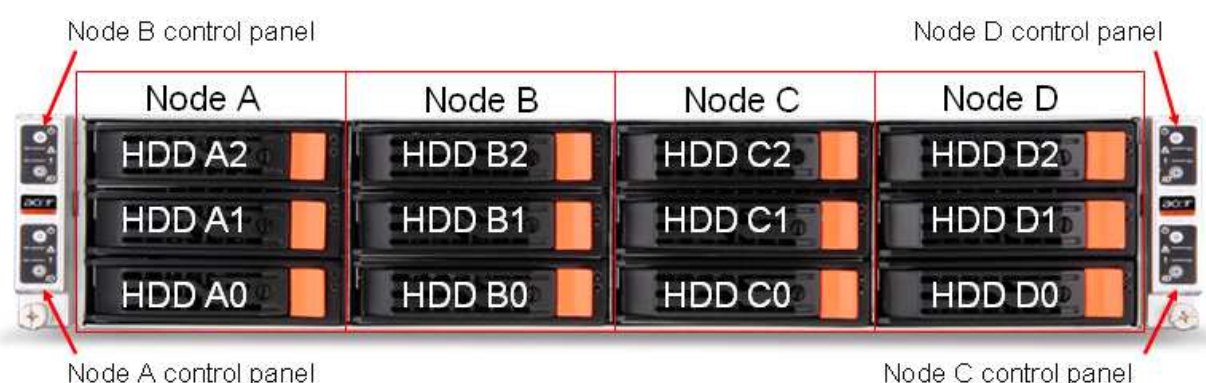
Acer AW2000h w/ AW175hx F1 Long Specifications

Connector	RJ-45
Cable support	CAT 5e wire
Virtualization acceleration	Virtual Machine Device Queues (VMDq) PCI-SIG® SR-IOV implementation
Manageability	NC-SI SMBus, PXE, iSCSI boot

Storage

Maximum internal storage	Hard disk drive	Up to 12 hot-pluggable 3.5" SATA HDD (3 per node)
	SATA 3.5" HDD	- Up to 24 TB - Up to 6 TB per node

Drive Support – Optical and Hard Disk Drive



Optical Drive Support

Drive	Bay Supported	Required Controller
Optical Drive	External Only	USB 2.0

Hard Disk Drive Support

Node	Drive	Quantity Supported	Bay Supported	Required Controller
A	3.5" SATA hard drive	Up to 3	A0 – A2	Integrated SATA controller for up to 3 SATA HDD's
B	3.5" SATA hard drive	Up to 3	B0 – B2	Integrated SATA controller for up to 3 SATA HDD's

Acer AW2000h w/ AW175hx F1 Long Specifications

C	3.5" SATA hard drive	Up to 3	C0 – C2	Integrated SATA controller for up to 3 SATA HDD's
D	3.5" SATA hard drive	Up to 3	D0 – D2	Integrated SATA controller for up to 3 SATA HDD's
NOTE: Transfer rates of drives are dependent on the maximum transfer rate supported by the host bus adapter (HBA) or controller.				

Tape Backup Drive Support

Drive	Bay Supported	Required Controller
LTO-3 1U SAS Rackmount (external) Tape Drive kit	External	SAS card
LTO-4 1U SAS Rackmount (external) Tape Drive kit	External	SAS card

Graphics Integrated Matrox G200 graphics with 16 MB video memory per node

Industry standard compliance IPMI 2.0 Compliant
SMBIOS 2.6.1 Compliant
ACPI v3.0b Compliant
PCI Express Generation 2.0
PXE 2.1 support
Microsoft Windows® Hardware Logo Program Requirements

Security Administrator password
Power-on password
Device boot control
Setup password
Power button lock
BIOS Write-Protect

System cooling

- Support 10° to 35°C (50° to 95°F) environment
- Two CPU heat-sinks supporting AMD Opteron processors
- Two non-hot plug, non-redundant 2x 80 mm system fans

Operating systems and virtualization software support

- Windows Server® 2008
- Windows Server® 2008 R2
- Windows Server® 2003 R2
- Red Hat® Enterprise Linux 5.4
- SUSE® Linux Enterprise Server 11
- VMware ESXi™ 4
- VMware ESX™ 4

Acer AW2000h w/ AW175hx F1 Long Specifications

Server Management Utilities and Applications

Comprehensive management solutions deliver powerful and intuitive management features to simplify server set ups, configuration, management, monitoring, and reporting for the entire lifecycle of servers. Centralized administration and automatic management with remote access control free the IT resources and meet the complex business environment. Proactive monitoring and notification lead higher customers' satisfaction and higher levels of operational efficiency.

Smart Setup 2.0	Easy deployment via the latest version of Acer's Smart Setup. Smart Setup is available both in box as a driver packed installation DVD or a downloadable file to be put into a USB 2.0 device, and eases the deployment of Acer servers for any certified OS. Through its unique interface, users may select to have all the correct drivers be pre-deployed for the OS of their choosing, as well as setup hardware RAID devices, BMC settings (where available), and even clone the pre-settings to a bootable USB device to ease mass server deployments.
Smart Console	Web-based management utility to simplify system management with embedded iBMC, system monitoring and alerting, event handling, remote power control and KVM-over-IP. Smart Console is OS independent and offers virtual media through floppy, ODD, and removable disk.
Smart Server Manager v1.1	Offering 24-7 monitoring for system health and performance. Delivers proactive event management features including system event logging, event handling from e-mail and SNMP Trap (PET) alerting. Monitors onboard hardware, operating systems and virtual machines Allows remote control from KVM and Power control Satisfies management in web-based UI, role-based administration, and automated management scripts.
Intelligent manageability	• Automatic Server Recovery (ASR) • Integrated Management Log • Front and Rear Unit ID (UID) button/LED • BIOS Update tool for DOS supporting DOS and Windows OS • IPMI Firmware Update tool supporting DOS and Windows OS • Backplane firmware update tool, supporting DOS and Windows OS
Environment-friendly products and approach	Acer offers end-of-life product return, trade-in, and recycling programs in many geographic areas. Products returned to will be recycled, recovered or disposed of in a responsible manner.

Acer AW2000h w/ AW175hx F1 Long Specifications

Memory Support Specification

Registered type DDR3 1066/ 1333 MHz
 Capacity: 2, 4, 8, 16 GB
 Voltage: 1.5 V
 Maximum: 256 GB per node (16 GBx16 DIMMs)

Unbuffered type DDR3 1066/ 1333 MHz
 Capacity: 2, 4 GB
 Voltage: 1.5 V
 Maximum: 64 GB per node (4 GB x 16 DIMMs)

Note: Mixed use of registered memory and unbuffered ECC memory not supported.
 16 GB memory modules available by special request only

Memory Population

The systems have sixteen DIMM slots. Each CPU controls eight slots. The DIMM slots support DDR3-1333 registered/unbuffered ECC memory modules.

- Each CPU has 4 memory channels.
- Each channel has 2 slots.

To maximize the memory performance, the DIMM modules should be installed as balanced as possible among processors and memory channels. And slots with the same slot number across memory channels should be populated with identical DIMMs.

NOTE:

- When you are using a single-processor server, you should install the memory module into P1DIMM1A to P1DIMM4B slots.
- The P2DIMM1A to P2DIMM4B slots are enabled when a second CPU is installed on the main board.

For the system to function, DIMM modules must be installed following the slot sequence listed below. DIMM module of the same type, size and manufacturer must be installed in the same colored DIMM slots.

- CPU 1 – Populate DIMM slots P1DIMM1A first, followed by slots P1DIMM3A, P1DIMM2A, P1DIMM4A, P1DIMM1B, P1DIMM3B, P1DIMM2B, and P1DIMM4B.
- CPU 2 – Populate DIMM slots P2DIMM1A first, followed by slots P2DIMM3A, P2DIMM2A, P2DIMM4A, P2DIMM1B, P2DIMM3B, P2DIMM2B, and P2DIMM4B.

DIMM slots notation illustrated in table below:

CPU1 (Rear CPU)	P1DIMM 4B	P1DIMM 4A	P1DIMM 3B	P1DIMM 3A	P1DIMM 2B	P1DIMM 2A	P1DIMM 1B	P1DIMM 1A
	Black	Blue	Black	Blue	Black	Blue	Black	Blue

CPU2 (Front CPU)	P2DIMM 4B	P2DIMM 4A	P2DIMM 3B	P2DIMM 3A	P2DIMM 2B	P2DIMM 2A	P2DIMM 1B	P2DIMM 1A
	Black	Blue	Black	Blue	Black	Blue	Black	Blue

Acer AW2000h w/ AW175hx F1 Long Specifications

Independent mode (please refer to the User Guide for more information)

- In this mode all memory is accessible and ECC protected

Single-processor configuration

Total Memory	P1DIMM 4B	P1DIMM 4A	P1DIMM 3B	P1DIMM 3A	P1DIMM 2B	P1DIMM 2A	P1DIMM 1B	P1DIMM 1A
4GB				2GB				2GB
8GB		2GB		2GB		2GB		2GB
16GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
8GB				4GB				4GB
16GB		4GB		4GB		4GB		4GB
32GB	4GB	4GB	4GB	4GB	4GB	4GB	4GB	4GB
16GB ¹²				8GB				8GB
32GB ¹²		8GB		8GB		8GB		8GB
64GB ¹²	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB
32GB ¹²				16GB				16GB
64GB ¹²		16GB		16GB		16GB		16GB
128GB ¹²	16GB	16GB	16GB	16GB	16GB	16GB	16GB	16GB

Note:

- RDIMM only
- 16 GB memory modules available by special request only

Dual processor configuration

Total Memory	CPU1 (P1DIMMxx)								CPU2 (P2DIMMxx)							
	4B	4A	3B	3A	2B	2A	1B	1A	4B	4A	3B	3A	2B	2A	1B	1A
8GB				2				2				2				2
16GB		2		2		2		2		2		2		2		2
32GB	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16GB				4				4				4				4
32GB		4		4		4		4		4		4		4		4
64GB	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
32GB ¹²				8				8				8				8
64GB ¹²		8		8		8		8		8		8		8		8
128GB ¹²	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
64GB ¹²				16				16				16				16
96GB ¹²				16		16		16				16		16		16
128GB ¹²		16		16		16		16		16		16		16		16
256GB ¹²	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

Note:

- RDIMM only
- 16 GB memory modules available by special request only

On-Line Spare

On-line spare is a RAS mechanism that allows the system to reserve one rank of one logical DIMM to be used as a spare rank. The spare rank must be greater than or equal to the size of all other ranks in the system. The system can switch to the spare rank when system software determines that one of the ranks in the system is no longer functioning properly and needs to be replaced.

Acer AW2000h w/ AW175hx F1 Long Specifications

Memory Identification

Generally, there is memory information printed on the label of DIMM, but different vendors may have different formats. For example:

4GB 2Rx4 PC3-10600R xx xx xxx

1. Density

- 2GB, 4GB, 8GB, 16GB
- AMD Opteron™ 6000 series processors support DIMMs organized by 1Gb, 2Gb or 4Gb DRAM chips

2. Rank

- 1R = Single Rank
- 2R = Dual Rank
- 4R = Quad Rank

3. Bit Organization

- This platform supports x4 and x8
- Note: It is not recommended to mix DIMMs with different bit organizations in one system

4. Speed

- PC3 – 6400 => DDR3- 800
- PC3 – 8500 => DDR3- 1066
- PC3 – 10600 => DDR3- 1333

Acer AW2000h w/ AW175hx F1 Long Specifications

Power Specification

1400 W Power Supply							
Operational input voltage range (Vrms)	100 - 240 VAC						
Frequency range (nominal) (Hz)	50 / 60						
Nominal input voltage (Vrms)	100	120	208	200	220	230	240
Maximum rated output wattage	1100	1100	1400	1400	1400	1400	1400
Nominal input current (A rms)	13.36	11.04	8.01	7.89	7.21	6.88	6.55
Maximum rated input wattage rating (Watts)	1336	1323	1666	1578	1586	1582	1572
Maximum rated VA (Volt-Amp)	1328	1320	1657	1569	1577	1573	1563
Efficiency (%) at maximum rated output wattage	87.16	87.32	88.30	88.62	88.85	89.07	89.93
Power factor	0.994	0.996	0.995	0.994	0.994	0.994	0.994
Leakage current (mA)	0.51	0.62	1.03	1.05	1.15	1.20	1.25
Maximum inrush current (A peak)	17.4	17.5	17.6	17.9	18.1	17.5	17
Maximum inrush current duration (mS)	4.70	4.69	4.77	4.72	4.67	4.71	4.75
Maximum British thermal unit rating (BTU/hr.)	3753.2	3753.2	4776.8	4776.8	4776.8	4776.4	4776.8

1 KW = 3412 BTU/hr.

Acer AW2000h w/ AW175hx F1 Long Specifications

Hardware Key Options/Components

CPU	• AMD® Opteron™ 6000 series
HDD	• SATA 3.5": 250 GB, 500 GB, 1TB, 2 TB
Memory	• DDR3 1333 MHz Unbuffered ECC 2/ 4 GB • DDR3 1333 MHz Registered ECC 2/ 4/ 8/ 16 GB
SAS HBA	• SAS HBA, internal 2-ports/external 2-ports, PCI-E x1 interface
Networking	• Gigabit CT Desktop Adapter, Gigabit Adapter 10/100/1000 Mbps connection for PCI Express • Qlogic Single-port Infiniband QDR 40Gbs HCA
Tape and disk-based backup	• LTO-3 1U SAS Rackmount (external) Tape Drive kit • LTO-4 1U SAS Rackmount (external) Tape Drive kit
Fibre channel HBA	• Qlogic SANblade® QLE2460 single port fibre channel to PCI express host bus adapter, 1 ch, 8 Gb FC HBA, PCIe x8, single LC port (std & low-profile bracket) • Qlogic SANblade® QLE2462 dual ports fibre channel to PCI express host bus adapter, 2ch, 8 Gb FC HBA, PCIe x8, dual LC port (std & low-profile bracket)
Rackmount kits	• Sliding rails (Cable Management Arm option not available)

Service and Support

Acer Servers offers a comprehensive service suite to take care of your hardware investment. Users can select the 1-year standard warranty or choose extended warranties and services⁶.

The standard warranty for the AW2000h F1 series includes one year Parts including Labor and On-Site coverage.

Warranty repairs may be accomplished through the use of Customer Replacement Unit (CRU) parts. CRU parts include: Hot Plug Hard Drives and Hot Plug Power Supplies. These parts are designed for easy replacement without tools. Travel and labor charges may apply if customers decline to replace a CRU part.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

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⁶ Extension warranty services vary by country. Please contact Acer authorized resellers for more information.

Acer AW2000h w/ AW175hx F1 Long Specifications

Acer Standard Server Models	Part Number
Acer AW2000h-AW175h F1, Two Nodes each with: Opteron 6128 (2GHz, 8Cores), 2x4GB Reg, no HDD, no Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.131
Acer AW2000h-AW175h F1, Two Nodes each with: Opteron 6168 (1.9GHz, 12Cores), 2x4GB Reg, no HDD, no Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.132
Acer AW2000h-AW175h F1, Two Nodes each with: Opteron 6174 (2.2GHz, 12Cores), 2x4GB Reg, no HDD, no Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.133
Acer AW2000h-AW175hq F1, Two Nodes each with: Opteron 6128 (2GHz, 8Cores), 2x4GB Reg, no HDD, QDR Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.134
Acer AW2000h-AW175hq F1, Two Nodes each with: Opteron 6168 (1.9GHz, 12Cores), 2x4GB Reg, no HDD, QDR Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.135
Acer AW2000h-AW175hq F1, Two Nodes each with: Opteron 6174 (2.2GHz, 12Cores), 2x4GB Reg, no HDD, QDR Infiniband, 2x GBit LAN onboard, Acer Smart Setup, Acer Smart Manager. System comes with 1x Hot Swap 1400W PSU, UPS Power Cable; second PSU and 3rd/4th nodes optional, Rail kit (2U) Included	TG.R6F00.136
Acer Key Options	Part Number
Acer CPU Heatsink	
Note: one heatsink required for each processor option kit	
Acer Processor upgrade kits	
Note: one heatsink required for each processor option kit	
Note: all processors in a system must match	
Acer AMD Opteron™6128(D1)Kit	TC.32500.028
Acer AMD Opteron™6168(D1)Kit	TC.32500.030
Acer AMD Opteron™6174(D1)Kit	TC.32500.032
Acer Memory	
Note: cannot mix Unbuffered memory with Registered memory	
Note: please refer to "Memory Support" Section for details on configuring memory	
Acer Unbuffered Memory	
Acer 2GB DDR3-1333 Unbuffered Memory Kit (1 pc.)	TC.33100.035
Acer 4GB DDR3-1333 Unbuffered Memory Kit (1 pc.)	TC.33100.037
Acer Registered Memory	
Acer 2GB DDR3-1333 Registered Memory Kit (1 pc.)	TC.33100.029
Acer 4GB DDR3-1333 Registered Memory Kit (1 pc.)	TC.33100.031
Acer 8GB DDR3-1333 Registered Memory Kit (1 pc.)	TC.33100.042
Acer Storage	
Acer SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
Acer 250GB 3Gb/s 7.2K 3.5-inch Enterprise SATA HDD Kit	TC.32700.068
Acer 500GB 3Gb/s 7.2K 3.5-inch Enterprise SATA HDD Kit	TC.32700.066
Acer 1TB 3Gb/s 7.2K 3.5-inch Enterprise SATA HDD Kit	TC.32700.064
Acer 2TB 3Gb/s 7.2K 3.5-inch Enterprise SATA HDD Kit	TC.32700.062

Acer AW2000h w/ AW175hx F1 Long Specifications

<u>Acer AW2000h Gemini Nodes</u>	
Note: Nodes ship without memory, processors and hard drives	
Acer AW175h F1 Node Kit	TN.R6R00.001
Acer AW175hq F1 Node Kit	TN.R6S00.001
<u>Acer Fibre Channel Storage Controllers</u>	
Acer 8Gb/s Single Port Fibre Channel HBA Kit	TC.32300.024
Acer 8Gb/s Dual Port Fibre Channel HBA Kit	TC.32300.026
<u>Acer Tape Drives</u>	
Acer LTO-3/LTO-4 1U Rackmount (ext.) Chassis Kit	TC.34000.040
Acer LTO-3 HH (int.) Tape Drive Kit - Compatible with Acer Servers which support Internal LTO drives (or) 1U external Rackmount chassis kit	TC.34000.022
Acer LTO-4 HH (int.) Tape Drive Kit -Compatible with Acer Servers which support internal LTO drives (or) 1U external Rackmount chassis kit	TC.34000.024
<u>Acer Additional Upgrades</u>	
Acer Gigabit Single Port LAN Adapter Kit	TC.32200.011
Acer Gigabit Dual Port Server LAN Adapter Kit	TC.32200.009
Acer Gigabit Quad Port Server LAN Adapter Kit	TC.32200.010
Acer 10 Gigabit Dual Port (DA) Server LAN Adapter Kit	TC.32200.012
Acer 10 Gigabit Single Port (SR) Server LAN Adapter Kit	TC.32200.014
Acer 10 Gigabit Single Port (LR) Server LAN Adapter Kit	TC.32200.013
Acer 10 Gigabit Dual Port (SR) Server LAN Adapter Kit	TC.32200.015
Acer Gigabit Dual Port Server LAN Adapter Kit - Intel based	TC.32200.022
Acer Gigabit Quad Port Server LAN Adapter Kit - Intel based	TC.32200.023
Acer 10 Gigabit Dual Port (DA) Server LAN Adapter Kit - Intel based	TC.32200.024
<u>Acer Operating Systems</u>	
<u>Windows Server Enterprise 2008</u>	
Acer ROK Windows SVR 2008 R2 Enterprise (64bit,25Clt,EN)	TC.34400.035
Acer ROK MICROSOFT Win SVR 2008 64bit Ent R2 10 Clt EN W/COA W/CD/DVD ACER 1-8CPU	TC.34400.034
<u>Windows Server Standard 2008</u>	
Acer ROK MICROSOFT Win SVR 2008 64bit Std R2 5 Clt EN W/COA W/CD/DVD ACER 1-4CPU	TC.34400.033
Acer ROK MICROSOFT Win SVR 2008 64bit Foun R2 EN W/COA W/CD/DVD ACER 1CPU	TC.34400.039
Acer ROK MICROSOFT Win SBS 2008 64bit Std w/SP2 5 Clt EN W/COA W/CD/DVD ACER 1-4CPU	TC.34400.041
Acer ROK MICROSOFT Win SBS 2008 64bit Prem w/SP2 5 Clt EN W/COA W/CD/DVD ACER 1-4CPU	TC.34400.043
<u>Microsoft CAL's</u>	
Acer Windows Server 2008 CAL EN (5 Device)	TC.34400.061
Acer Windows Server 2008 CAL EN (5 User)	TC.34400.063
<u>Acer Services</u>	
Acer Upgrade from 1 year Parts/1 year Labor/1 year On-Site to 3 years Parts/Labor/On-site Service (AW2000/170h/AW2000-175h/AW2000ht-170ht)	146.AD314.004
Acer Upgrade from 1 year Parts/1 year Labor/1 year On-Site to 3 years Parts/Labor/On-site Service with 4hr response (AW2000/170h/AW2000-175h/AW2000ht-170ht)	146.AD316.007